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C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.56.aj RHIC Zone 2z2 Sweep Checklist

Text Pages 2 through 4

C-A OPM Procedures in which this Attachment is used.

4.56		

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
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Approved: _____ **Signature On File** _____
 Collider-Accelerator Department Chairman Date

P. Ingrassia, W. MacKay

RHIC Zone 2z2 Sweep Checklist

Team leader (TL) _____ Sweeper#2 (S2) _____

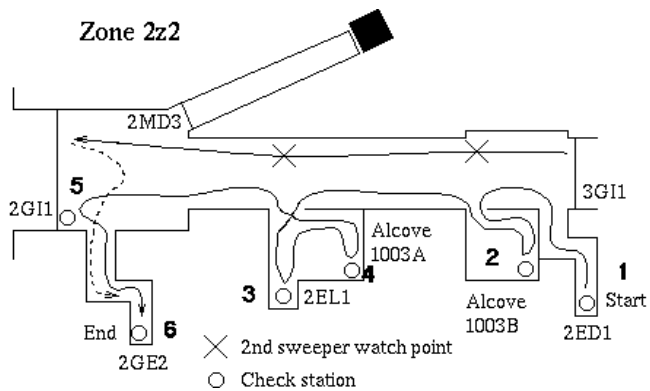
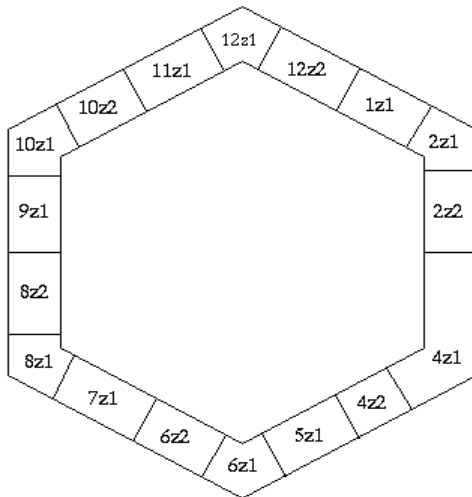
Time: _____ Date: _____

Warning:

IF any workers are encountered during the sweep, **THEN** contact the OC to see if the sweep should be aborted. Workers shall leave the enclosure **WITH** the sweep team. **IF** the workers crash out of the enclosure **AND** do not exit with the sweep team, **THEN** the sweep shall be re-started.

Prerequisites

- Two persons to perform the sweep,
- At least one sweeper not restricted from working at heights over five feet.
- RHIC Zone 2z2 Sweep Checklist (three pages)
- Required Tools: at least one flashlight,
- Padlock for 2MD3 (one may be in place)
- Walkie-talkies
- All Doors closed THEN 2Z2 set to Controlled Access
- Keys: Sweep Reset key S/R015, Controlled Access key CA014, key for padlock



Note:

References to positions in the tunnel are made using the RHIC magnets. The identity of the local magnet can be determined by looking up at the “lower” cable tray and reading the magnet name on a blue (B) or yellow (Y) label. For example, the convention used is: I05Q17 (Inside, Q17) or O-05Q17 (Outside, Q17). References are for inside locations and are visible only by the Team Leader

check

- ____ 1. Sweep team enters 2z2 after TL requests simultaneous release from MCR (2GE2 is the recommended entry door).

CONTINUED ON REVERSE SIDE

- ___2. TL opens 2GE2 gate by turning the CA015 key clockwise, in the Controlled Access key-switch while Operator in MCR presses simultaneous release for 2GE2.
- ___3. Sweep Team passes through 2GE2 door.

Note:

Gate 2MD3 must be reset before the sweep may begin

- ___4 Sweep team walks to 2MD3.
- ___5 IF 2MD3 is not reset AND the door is not padlocked, THEN TL opens the door and shines the flashlight down the tunnel to search for persons. IF any object in the tunnel blocks the view THEN the TL shall enter and verify that no one is inside.
- ___6 TL closes and padlocks the door and resets the gate using the S/R015 key in the RESET keyswitch.
- ___7 Observe the yellow RESET lamp is lighted.
- ___8 TL crosses under the accelerators to the inside of the tunnel while S2 remains outside.
- ___9 Sweep team walks to 3GI1 at the far (3 o'clock) end of the 2z2 zone.
- ___10 S2 stands static watch at 3GI1.
- ___11 TL walks down labyrinth to 2ED1 door.
- ___12 TL resets gate 2ED1 using the S/R015 key in the RESET keyswitch .
- ___13 TL observes the yellow RESET lamp is lighted
- ___14 TL STARTS SWEEP by turning the S/R015 key CW in the SWEEP key-switch (2CS6)
- ___15 TL observes AREA SECURED lamp blink once.
- ___16 TL confirms overhead barrier is in place near 2ED1 gate
- ___17 TL sweeps out the labyrinth and rejoins S2.
- ___18 TL stands static watch while S2 climbs yellow stairs and searches fan vents and the space above the cable trays.
- ___19 S2 returns to the outside of the tunnel and stands static watch.
- ___20 TL goes to check station 2CS5 in the 1003B Alcove.
- ___21 TL sets second check station (2CS5) by turning S/R015 key in the SWEEP keyswitch.
- ___22 TL observes AREA SECURED lamp blink once.
- ___23 TL searches all the equipment racks, sweeps out the alcove, and rejoins S2.
- ___24 Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___25 TL stops to check the Exhaust Fan Vent Barrier at I-02Q17.
- ___26 Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___27 S2 stands static watch at the electrical services alcove opposite T-02Q13.
- ___28 TL walks to the ladder at 2EL1 in alcove 1003A.
- ___29 IF there is no mirror to verify no one is on the landing at the top of the ladder, THEN TL must climb the ladder to verify no one is on the landing and to check that 2EL1 door is closed.
- ___30 TL resets gate 2EL1 using the S/R015 key in the RESET keyswitch at the bottom of the ladder.
- ___31 IF 2EL1 will not reset THEN TL climbs the ladder, closes 2EL1, then repeats step 30.
- ___32 TL observes GATE RESET lamp lights after RESET.
- ___33 TL sets third check station (2CS3) by turning S/R015 key in the SWEEP keyswitch.
- ___34 TL observes AREA SECURED lamp blink once.
- ___35 TL searches all the equipment racks,
- ___36 TL goes to check station 2CS4 at the far corner of the alcove.
- ___37 TL sets fourth check station (2CS4) by turning S/R015 key in the SWEEP keyswitch.
- ___38 TL observes AREA SECURED lamp blink once.
- ___39 TL sweeps out the alcove, and rejoins S2.
- ___40 TL confirms fan vent barrier is in place on the far side of the tunnel (above S2) and overhead barrier is in place.
- ___41 Sweep team sweeps Counter Clockwise (CCW) around RHIC.

CONTINUED ON NEXT SHEET

- ___42 TL stops to check the Exhaust Fan Vent Barriers at I-02D10.
- ___43 Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___44 Team Leader checks exhaust fan vent barrier at I-02Q6
- ___45 TL checks exhaust fan vent barrier next to S2WB1 -- bake out switch box
- ___46 TL checks Exhaust Fan Access Door padlocks at I-02D5
- ___46 Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___47 Sweep team sweeps to gate 2GI1.
- ___48 IF not reset, TL resets 2GI1 gate using the S/R015 key in the RESET keyswitch on the 2GI1-I gate box.
- ___49 Observe the yellow GATE RESET lamp is lighted.
- ___50 TL sets fifth check station (2CS1) by turning S/R015 key in the SWEEP keyswitch.
- ___51 TL observes AREA SECURED lamp blink once.
- ___52 S2 crosses under the accelerators to join TL.
- ___53 Sweep Team sweeps out the labyrinth to gate 2GE2.
- ___54 TL ends sweep by turning S/R015 key in the SWEEP keyswitch at 2CS2.
- ___55 Observe the yellow AREA SECURED indicator remains lighted.
- ___56 TL contacts MCR for simultaneous release for gate 2GE2.
- ___57 Sweep Team sweeps out zone 2z2 through 2GE2.
- ___58 TL observes the yellow AREA SECURED lamp is lighted.
- ___59 TL contacts MCR and confirms that gates are reset and 2z2 zone indicates sweep is good.

Note:

IF the AREA SECURED, and GATE RESET lamps are not lit THEN contact MCR to verify sweep is good and gates(s) are reset.

- ___60 After returning keys to keytree in MCR, TL RESETS the RCA gate 2GE2 using the RHIC PanelView in the MCR.
- ___61 After verifying that all information is filled out completely, TL files the checklist in FY_xx Sweep Log binder.